



Applications

- Switching mode power supply application
- Converter & chopper application

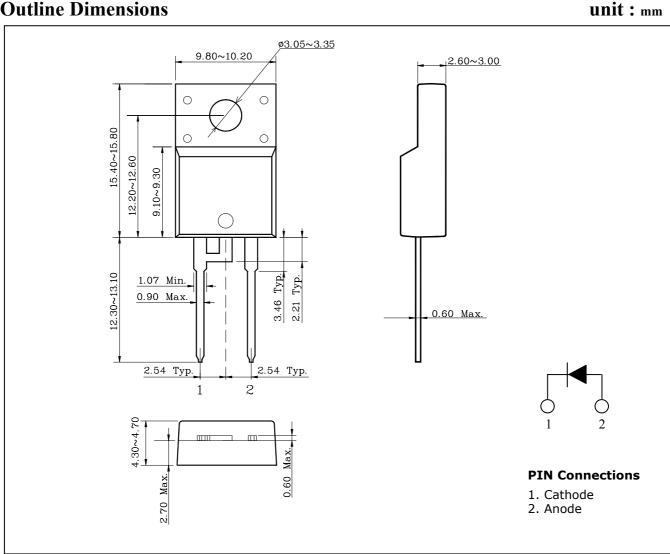
Features

- Low forward voltage: V_{FM} =0.55V Max.
- \bullet Low reverse current: $I_{\text{RRM}} {=}\, 0.5 \text{mA Max}.$
- Low switching loss

Ordering Information

Type No.	Marking	Package Code	
SDB540	SDB540	TO-220F-2L	

Outline Dimensions



SDB540

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Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}	40	V
Average rectified output current	I _O	5	Α
Peak surge forward current (Non-repetitive 60Hz sine wave)	I_{FSM}	60	А
Junction temperature	T ₃	150	°C
Storage temperature range	T _{stg}	-55 ~ 150	°C

Electrical Characteristics

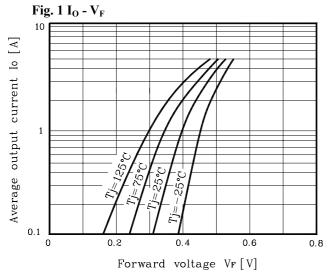
(Ta=25°C)

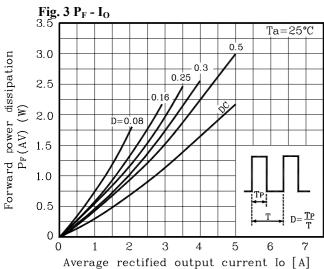
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Peak forward voltage	V_{FM}	I _F =5A ¹⁾	-	-	0.55	V
Repetitive peak reverse current	I_{RRM}	V _R =40V	-	ı	0.5	mA
Junction capacitance	C_{j}	V _R =10V, f=1.0MHz	-	200	-	pF
Thermal resistance	R _{th}	Junction to ambient	-	-	62.5	- °C/W
		Junction to case	-	-	4.0	

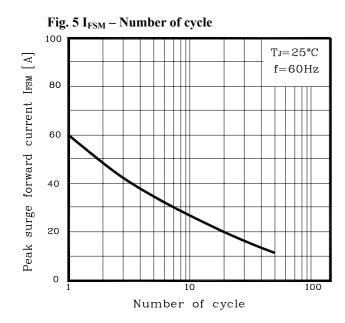
¹⁾ Pulse test : $t_P \le 380 \,\mu\text{s}$, Duty cycle $\le 2\%$

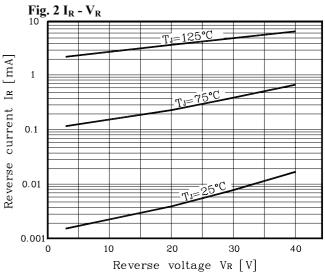
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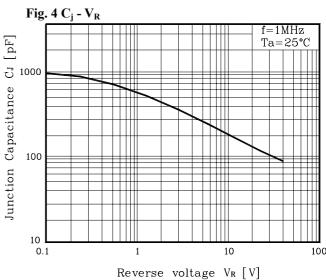
Electrical Characteristic Curves

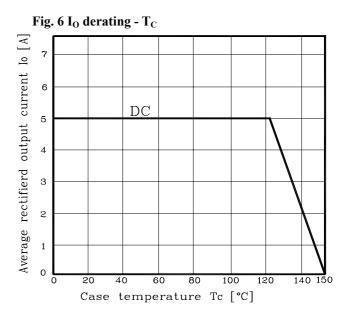












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